

REMARKS

Claim 1 was rejected over Ellsworth under Section 102. Claim 1 has been amended to call for a heat transfer fin including metallic and non-metallic materials, the metallic layer providing structural integrity to the fin. Support may be found in the specification at page 3, lines 19-20.

In the cited reference, the metallic layer provides no such structural integrity. It may be foil or it may be a deposited material. Its purpose is to encapsulate the graphite inner layer and to prevent the graphite layer, upon failing, from disintegrating and contaminating neighboring components. See paragraph 29. Thus, the foil or the coating cannot provide the structural integrity for the fin. Therefore, claim 1, as amended, patentably distinguishes over the art.

For similar reasons, the other dependent claims also patentably distinguish.

It is not believed that claims 10, 21, or 30 are indicated to be allowable or otherwise rejected.


The objections to claims 23 and 28 have been cured by suitable amendments.

On a similar analysis, the other claims should now be in condition for allowance.

Concerning claims 6, 7, 9, 16, 17, 19, 26, 27, and 29, it is noted that they are rejected over the combination of Ellsworth and Moresco. It is suggested that Moresco teaches making cooling fins of ratio of 20:1 and using metallic and non-metallic material. However, the material used in Moresco is noted to be a polymer, not graphite. The problem with graphite, noted in the cited Ellsworth patent, is that it has poor structural integrity. Thus, Ellsworth would have been hesitant to form such high aspect ratio fins. Moresco provides no way to provide sufficient structural integrity to graphite containing fins to make them strong enough. Thus, the combination of Moresco and Ellsworth simply will not work. Reconsideration is respectfully requested.

Respectfully submitted,

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